PRELIMINARY AMENDMENT

US Appln. No.: 09/539,412

ATTORNEY DOCKET NO. Q56557

A radiation solid-state detector according to claim 1, wherein the electrode 8. constituting said second electrode layer and/or said first conductive member is a stripe electrode comprising a number of linear electrodes.

A radiation solid-state detector according to claim 1, wherein the electrode 9. constituting said second electrode layer and said first conductive member is a stripe electrode comprising a number of linear electrodes, and

the linear electrodes of said first conductive member are disposed so that they are opposed to or almost orthogonally intersect the linear electrodes of the electrode constituting said second electrode layer.

A radiation image recording method which projects radiation onto the radiation 10. solid-state detector according to claim 1 to store the charges of the quantity corresponding to the dose of the projected radiation in the charge storing section of said radiation solid-state detector as latent image charges for recording of radiation image information as a static latent image in said charge storing section,

wherein a control voltage to adjust the electric field formed between both electrode layers by a DC voltage applied across the first electrode layer and the second electrode layer in said radiation solid-state detector is applied to said first conductive member.

A radiation image reading method which, from the radiation solid-state detector 11. according to claim 1 in which radiation image information has been recorded as a static latent image, reads out said radiation image information,

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wherein the charges corresponding to the latent image charges stored in the charge storing section of said radiation solid-state detector are read out through said first conductive member to provide an electric signal at a level corresponding to the quantity of said latent image charges.

12. A radiation image recording device which projects radiation onto the radiation solid-state detector according to claim 1 to store the charges of the quantity corresponding to the dose of the projected radiation in the charge storing section of said radiation solid-state detector as latent image charges for recording of radiation image information as a static latent image in said charge storing section, comprising:

voltage application means which applies a DC voltage across the first electrode layer and the second electrode layer in said radiation solid-state detector, and

control voltage application means for applying, to said first conductive member, a control voltage to adjust the electric field formed between both electrode layers by a DC voltage applied by said voltage application means.

13. A radiation image reading device which, from the radiation solid-state detector according to claim 1 in which radiation image information has been recorded as a static latent image, reads out said radiation image information, comprising:

image signal acquisition means which, by reading out the charges corresponding to the latent image charges stored in the charge storing section of said radiation solid-state detector through said first conductive member, provides an electric signal at a level corresponding to the quantity of said latent image charges.